

**ABSTRACT**

In addition to a singal measurement unit (108) that measures two outputs of an adjustment unit (106) for applying a gain and an offset to two signals to be sources of error signals, an offset amount learning unit (109), a balance correction value adjustment unit (110) and a balancer correction unit (111) are provided. An offset amount of a singal in an unfocused mode offset from an operation reference level of a balance operation unit (107) is obtained, a balance operation is performed only for a signal in a focused mode, and then, correction corresponding to the offset amount is performed, whereby an output dynamic range of the adjustment unit (106) is utilized to the maximum in the focused mode.